EURO ECO / EURO deluxe

DC 2

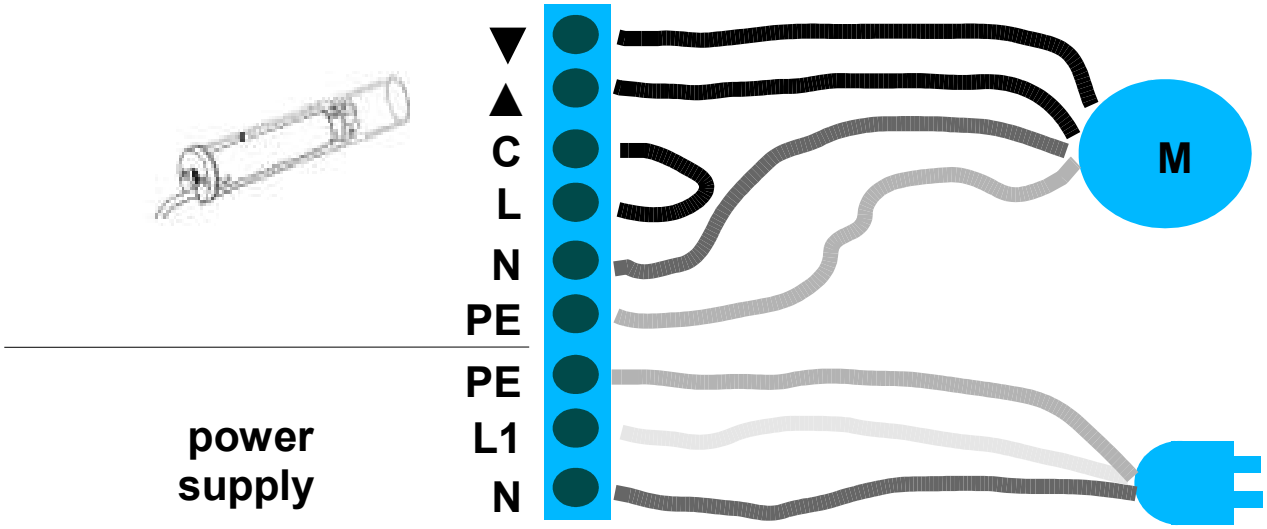
ellard

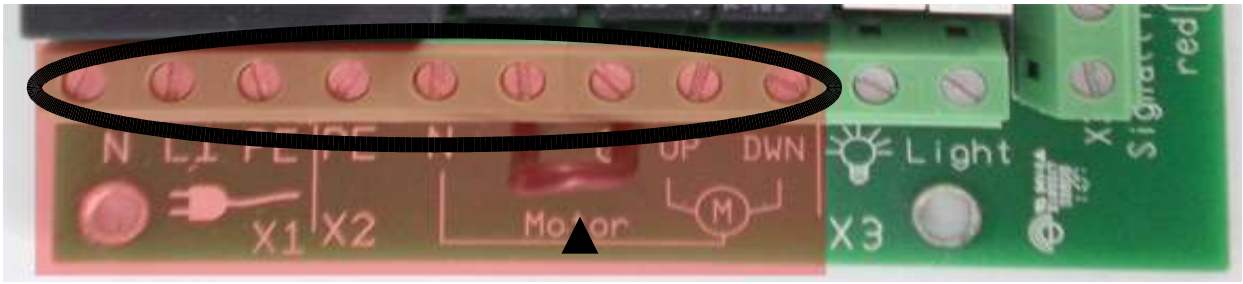
DC 2 - Control Unit
conforms to DIN EN 12453

Installation Manual

Connection

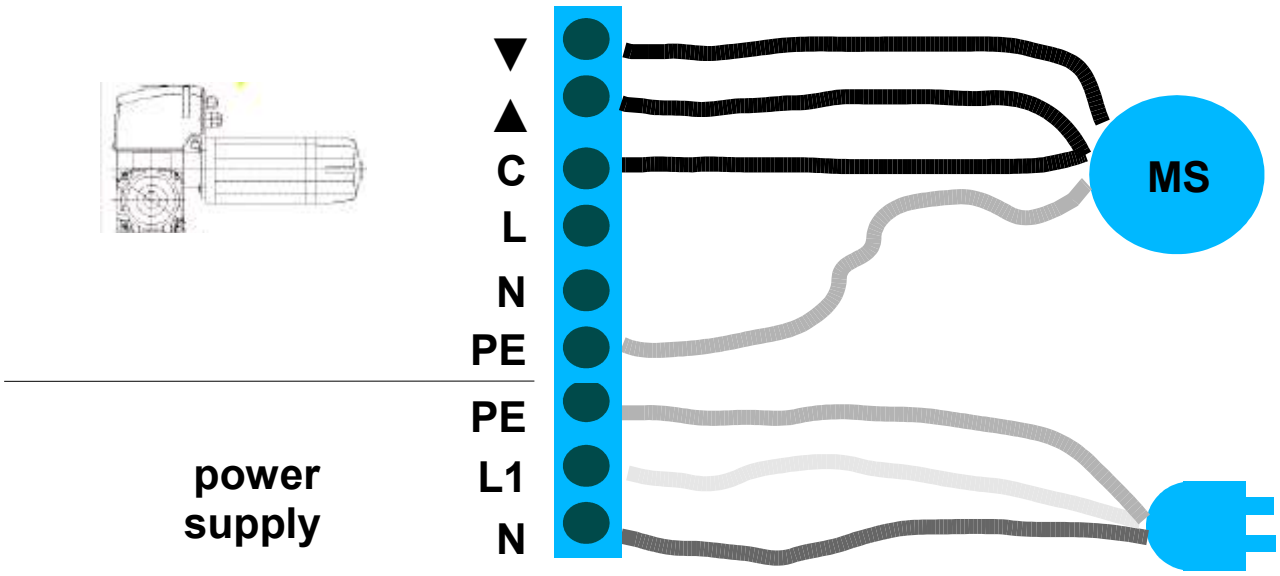
1-phase 230VAC motor



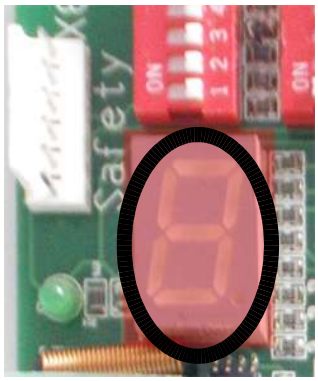


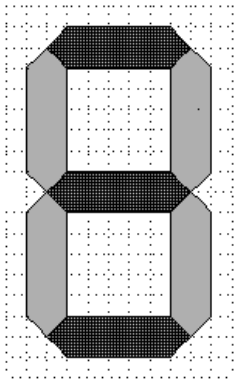
remove bridge when
installing build-in-starters

connection for build-in-starters



Turn power on
Checking

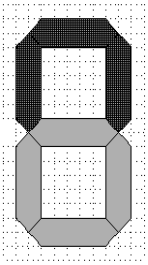




green light on

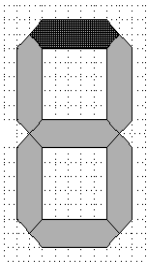
red light off

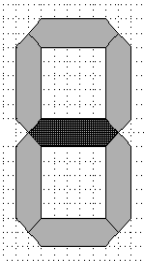
ready to operate



running up

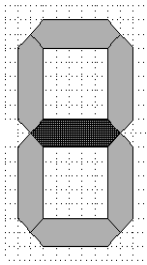
door postion up

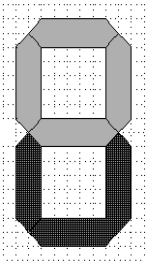




stop

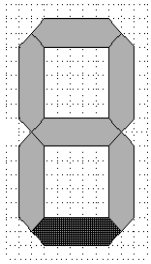
middle



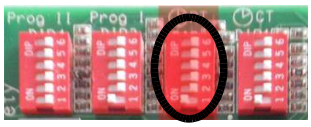


running down

door postion down

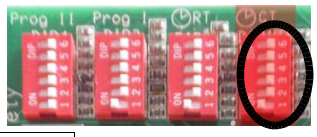


turn power off ☺



RT running time

1 2 3 4 5 6	On / Off	D/F	GB	1 2 3 4 5 6	On / Off	D/F	GB	1 2 3 4 5 6	On / Off	D/F	GB	1 2 3 4 5 6	On / Off	D/F	GB
■ ■ ■ ■ ■ ■	On / Off	Off	Off	■ ■ ■ ■ ■ ■	On / Off	23“	52“	■ ■ ■ ■ ■ ■	On / Off	39“	100“	■ ■ ■ ■ ■ ■	On / Off	55“	148“
■ ■ ■ ■ ■ ■	On / Off	8“	7“	■ ■ ■ ■ ■ ■	On / Off	24“	55“	■ ■ ■ ■ ■ ■	On / Off	40“	103“	■ ■ ■ ■ ■ ■	On / Off	56“	151“
■ ■ ■ ■ ■ ■	On / Off	9“	10“	■ ■ ■ ■ ■ ■	On / Off	25“	58“	■ ■ ■ ■ ■ ■	On / Off	41“	106“	■ ■ ■ ■ ■ ■	On / Off	57“	154“
■ ■ ■ ■ ■ ■	On / Off	10“	13“	■ ■ ■ ■ ■ ■	On / Off	26“	61“	■ ■ ■ ■ ■ ■	On / Off	42“	109“	■ ■ ■ ■ ■ ■	On / Off	58“	157“
■ ■ ■ ■ ■ ■	On / Off	11“	16“	■ ■ ■ ■ ■ ■	On / Off	27“	64“	■ ■ ■ ■ ■ ■	On / Off	43“	112“	■ ■ ■ ■ ■ ■	On / Off	59“	160“
■ ■ ■ ■ ■ ■	On / Off	12“	19“	■ ■ ■ ■ ■ ■	On / Off	28“	67“	■ ■ ■ ■ ■ ■	On / Off	44“	115“	■ ■ ■ ■ ■ ■	On / Off	60“	163“
■ ■ ■ ■ ■ ■	On / Off	13“	22“	■ ■ ■ ■ ■ ■	On / Off	29“	70“	■ ■ ■ ■ ■ ■	On / Off	45“	118“	■ ■ ■ ■ ■ ■	On / Off	61“	166“
■ ■ ■ ■ ■ ■	On / Off	14“	25“	■ ■ ■ ■ ■ ■	On / Off	30“	73“	■ ■ ■ ■ ■ ■	On / Off	46“	121“	■ ■ ■ ■ ■ ■	On / Off	62“	169“
■ ■ ■ ■ ■ ■	On / Off	15“	28“	■ ■ ■ ■ ■ ■	On / Off	31“	76“	■ ■ ■ ■ ■ ■	On / Off	47“	124“	■ ■ ■ ■ ■ ■	On / Off	63“	172“
■ ■ ■ ■ ■ ■	On / Off	16“	31“	■ ■ ■ ■ ■ ■	On / Off	32“	79“	■ ■ ■ ■ ■ ■	On / Off	48“	127“	■ ■ ■ ■ ■ ■	On / Off	64“	175“
■ ■ ■ ■ ■ ■	On / Off	17“	34“	■ ■ ■ ■ ■ ■	On / Off	33“	82“	■ ■ ■ ■ ■ ■	On / Off	49“	130“	■ ■ ■ ■ ■ ■	On / Off	65“	178“
■ ■ ■ ■ ■ ■	On / Off	18“	37“	■ ■ ■ ■ ■ ■	On / Off	34“	85“	■ ■ ■ ■ ■ ■	On / Off	50“	133“	■ ■ ■ ■ ■ ■	On / Off	66“	181“
■ ■ ■ ■ ■ ■	On / Off	19“	40“	■ ■ ■ ■ ■ ■	On / Off	35“	88“	■ ■ ■ ■ ■ ■	On / Off	51“	136“	■ ■ ■ ■ ■ ■	On / Off	67“	184“
■ ■ ■ ■ ■ ■	On / Off	20“	43“	■ ■ ■ ■ ■ ■	On / Off	36“	91“	■ ■ ■ ■ ■ ■	On / Off	52“	139“	■ ■ ■ ■ ■ ■	On / Off	68“	187“
■ ■ ■ ■ ■ ■	On / Off	21“	46“	■ ■ ■ ■ ■ ■	On / Off	37“	94“	■ ■ ■ ■ ■ ■	On / Off	53“	142“	■ ■ ■ ■ ■ ■	On / Off	69“	190“
■ ■ ■ ■ ■ ■	On / Off	22“	49“	■ ■ ■ ■ ■ ■	On / Off	38“	97“	■ ■ ■ ■ ■ ■	On / Off	54“	145“	■ ■ ■ ■ ■ ■	On / Off	70“	193“



CT closing time

1 2 3 4 5 6	On / Off	AZ	1 2 3 4 5 6	On / Off	AZ	1 2 3 4 5 6	On / Off	AZ	1 2 3 4 5 6	On / Off	AZ
■ ■ ■ ■ ■ ■	On / Off	Off	■ ■ ■ ■ ■ ■	On / Off	35“	■ ■ ■ ■ ■ ■	On / Off	67“	■ ■ ■ ■ ■ ■	On / Off	99“
■ ■ ■ ■ ■ ■	On / Off	5“	■ ■ ■ ■ ■ ■	On / Off	37“	■ ■ ■ ■ ■ ■	On / Off	69“	■ ■ ■ ■ ■ ■	On / Off	101“
■ ■ ■ ■ ■ ■	On / Off	7“	■ ■ ■ ■ ■ ■	On / Off	39“	■ ■ ■ ■ ■ ■	On / Off	71“	■ ■ ■ ■ ■ ■	On / Off	103“
■ ■ ■ ■ ■ ■	On / Off	9“	■ ■ ■ ■ ■ ■	On / Off	41“	■ ■ ■ ■ ■ ■	On / Off	73“	■ ■ ■ ■ ■ ■	On / Off	105“
■ ■ ■ ■ ■ ■	On / Off	11“	■ ■ ■ ■ ■ ■	On / Off	43“	■ ■ ■ ■ ■ ■	On / Off	75“	■ ■ ■ ■ ■ ■	On / Off	107“
■ ■ ■ ■ ■ ■	On / Off	13“	■ ■ ■ ■ ■ ■	On / Off	45“	■ ■ ■ ■ ■ ■	On / Off	77“	■ ■ ■ ■ ■ ■	On / Off	109“
■ ■ ■ ■ ■ ■	On / Off	15“	■ ■ ■ ■ ■ ■	On / Off	47“	■ ■ ■ ■ ■ ■	On / Off	79“	■ ■ ■ ■ ■ ■	On / Off	111“
■ ■ ■ ■ ■ ■	On / Off	17“	■ ■ ■ ■ ■ ■	On / Off	49“	■ ■ ■ ■ ■ ■	On / Off	81“	■ ■ ■ ■ ■ ■	On / Off	113“
■ ■ ■ ■ ■ ■	On / Off	19“	■ ■ ■ ■ ■ ■	On / Off	51“	■ ■ ■ ■ ■ ■	On / Off	83“	■ ■ ■ ■ ■ ■	On / Off	115“
■ ■ ■ ■ ■ ■	On / Off	21“	■ ■ ■ ■ ■ ■	On / Off	53“	■ ■ ■ ■ ■ ■	On / Off	85“	■ ■ ■ ■ ■ ■	On / Off	117“
■ ■ ■ ■ ■ ■	On / Off	23“	■ ■ ■ ■ ■ ■	On / Off	55“	■ ■ ■ ■ ■ ■	On / Off	87“	■ ■ ■ ■ ■ ■	On / Off	119“
■ ■ ■ ■ ■ ■	On / Off	25“	■ ■ ■ ■ ■ ■	On / Off	57“	■ ■ ■ ■ ■ ■	On / Off	89“	■ ■ ■ ■ ■ ■	On / Off	121“
■ ■ ■ ■ ■ ■	On / Off	27“	■ ■ ■ ■ ■ ■	On / Off	59“	■ ■ ■ ■ ■ ■	On / Off	91“	■ ■ ■ ■ ■ ■	On / Off	123“
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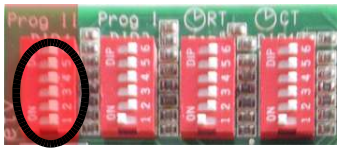
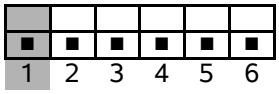
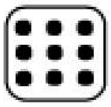
■ ■ ■ ■ ■ ■	On / Off	31“	■ ■ ■ ■ ■ ■	On / Off	63“	■ ■ ■ ■ ■ ■	On / Off	95“	■ ■ ■ ■ ■ ■	On / Off	127“
■ ■ ■ ■ ■ ■	On / Off	33“	■ ■ ■ ■ ■ ■	On / Off	65“	■ ■ ■ ■ ■ ■	On / Off	97“	■ ■ ■ ■ ■ ■	On / Off	129“

Turn power on. Ready to operate.

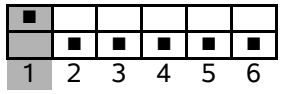


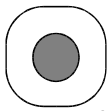
Program II



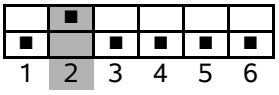


keypad

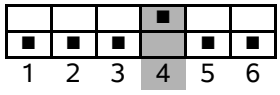




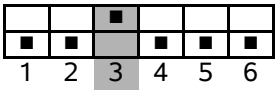
transponder



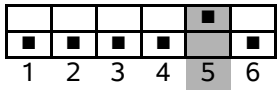
external timer



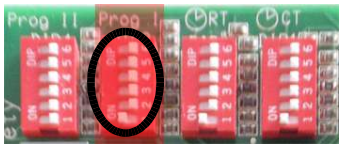
on



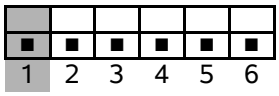
green light

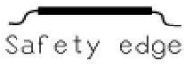


radio control

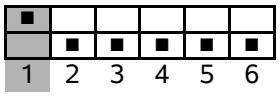


Program I

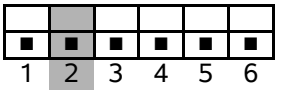




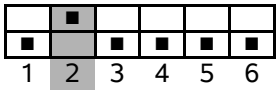
on



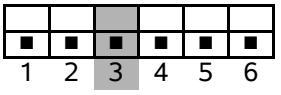
8,2k Ω

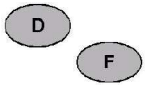


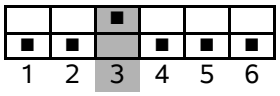
no testing

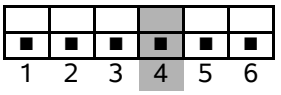


testing active

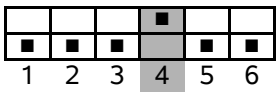




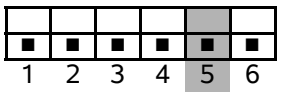




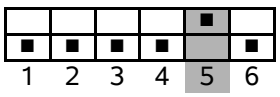
3 sec.



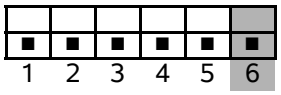
2 min.



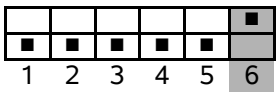
prewarning in-active



prewarning active



geba article
505.LS4E.OL



NC

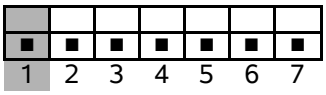
Turn power on

Checking

green light on

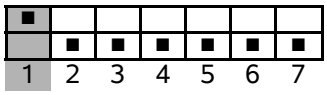
turn power off ☺

Program



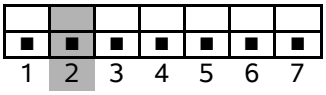
On
Off

on



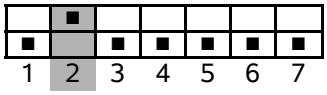
On
Off

8,2k Ω



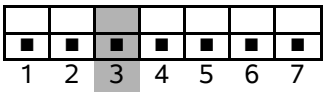
On
Off

CT closing
time off



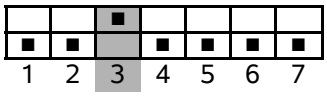
On
Off

CT closing
time on



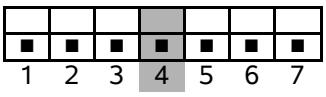
On
Off

CT closing time
30 sec.



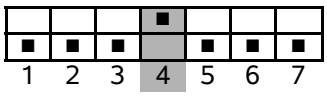
On
Off

CT closing time
120 sec.



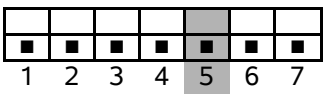
On
Off

go function off

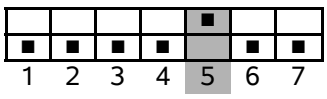


On
Off

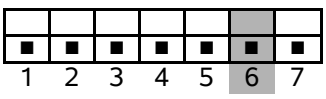
go function active



On
Off

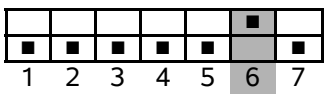


On
Off



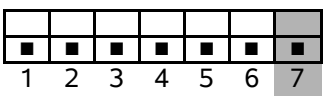
On
Off

prewarning in-active



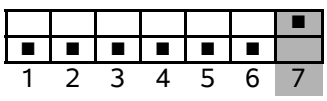
On
Off

prewarning active



On
Off

testing in-active



On
Off

testing active

Turn power on
ready to operate.

The door control DC 2 EURO is designed for hold to run control of power operated doors. The basic version is designed for hold to run operation only, and you are not allowed to use the automatic function without using additional safety devices.

- In case of using DC 2 EURO with a permanent mains connection, an all-pole main switch with an appropriate back-up fuse must be provided.
- Before operation, check whether the permissible mains voltage range of the device corresponds to the local mains voltage.
- Please note that the door control as well as the motor are for indoor installation only.
- During installation, initial operation, maintenance and testing of the DC 2 EURO it is necessary to observe the safety and accident prevention regulations valid for the specific application. Only trained electrical craftsmen should work on electrical equipment.

Appliance according to the regulations

The door control DC 2 EURO is provided for the operation of sectional-, rollershutter-, folding- and swingdoors.
The manufacturer of the complete installation is responsible. He must take care that the relevant standards and guidelines (e.g. DIN 1986, EN 12050) have to be respected.
He must take care that a technical documentation of the whole installation is made available.
The technical documentation must be added to the door unit.
Installation, operating and use of the unit against this manual or the described technical specifications causes danger for persons and produces a liability- and obligations release.
National and regional precautions and standards for the installation, as well as safety precautions of local technical standards have to be respected.

Technical data		
Model	**DC 2 – EURO deluxe**	**DC 2 – EURO ECO**
Supply voltage	**230VAC 4,5VA**	**230VAC 4,5VA**
Frequency	**50 Hz**	**50 Hz**
Protection class	**IP 54**	**IP 54**
Outputs motor	**3x NO relay contact** 230 V / 5 A **2x NO relay contact** 230 V / 2 A 1x unregulated supply voltage 24V DC, max. 50mA	**3 x NO relay contact** 230 V / 5 A 1x unregulated supply voltage 24V DC, max. 50mA
Wiring	**1,5 mm² max.**	**1,5 mm² max.**
Operating temperature	**- 10 C° to + 55 C°**	**- 10 C° to + 55 C°**

Table of contents

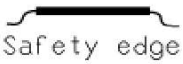
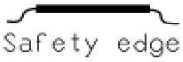
Security instructions and technical data	p2
DC – 2 EURO ECO	
1-phase 230VAC motor and build-in-starters	p3
Layout	p4
Programming	p5
Optional programming radio control	p6
Troubleshooting	p7
DC – 2 EURO deluxe	
1-phase 230VAC motor and build-in-starters	p3
Layout	p8
Status display	p9
Programming	p10-11
Troubleshooting	p12
Connection and Accessories for DC – 2 EURO ECO and DC – 2 EURO deluxe	
Limit switches	p13
KDT 2 / M-Series 2T and KDT 3 Pushbutton	p14
M-Series 1T, emergency stop / KDT 1 and ES Series	p15
J-Series and J-Series with Stop	p16
LS 1 and LS 2 Photobeams	p17
Safety-edge Pro-Sec-O	p19
Connection and Accessories for DC – 2 EURO deluxe only	
LS 2 and LS 3 Reflector	p18
LS 4 Photobeam and 8k2 Ω resistor	p19
Signal light 230VAC and Court light 230VAC	p20
Cody wiring and programming	p21-22
Transponder wiring and programming	p23-24
Radio control programming	p25-26

troubleshooting

Status Display		Status red LED	Beep	Action to take
	Security	Off	No	1, 2, 3, 4
	Safety edge active	Off	No	1, 2, 3
	Safety edge damaged	On	Yes	7
	Photobeam active	Off	No	1, 2, 3
	Photobeam damaged	On	Yes	8
	Relais damaged	On	Yes	5
	RT ⏲ error	On	Yes	1, 2, 3
	Safety top barrier active	Off	No	1, 2, 3
	Safety top barrier damaged	On	Yes	10
	No Power	Off	No	1, 9

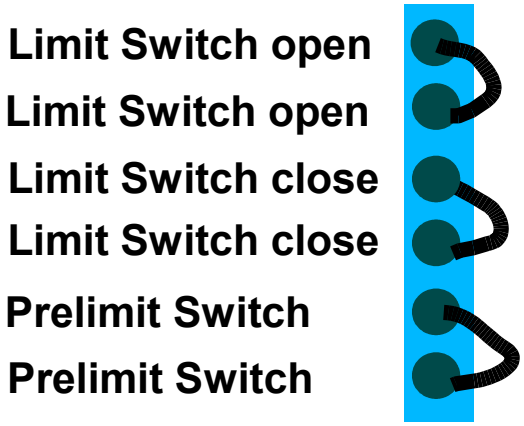
1	control installation	6	change module
2	control DIP-switch position	7	change safety edge
3	control pre-wired electrical bridges	8	change photobeam
4	control limit switches	9	change fuse
5	contact dealer	10	change the safety top barrier

troubleshooting

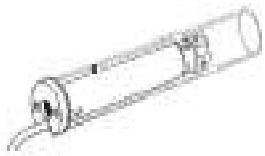
Status red LED		action to take
1 x	 active	1, 2, 3
2 x	 damaged	1, 2, 3, 7
3 x	Security	1, 2, 3
4 x	RT error	1, 2, 3
Off	No power	1,9

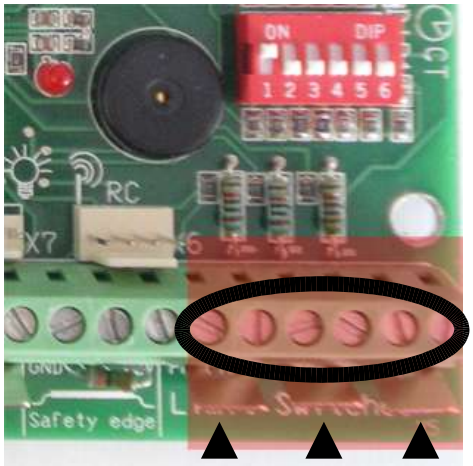
1	control installation	6	change module
2	control DIP-switch position	7	change safety edge
3	control pre-wired electrical bridges	8	change photobeam
4	control limit switches	9	change fuse
5	contact dealer	10	change the safety top barrier

Connection

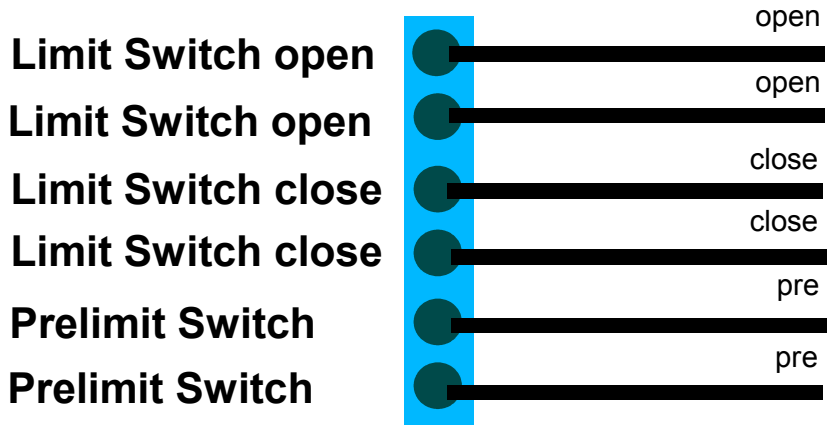


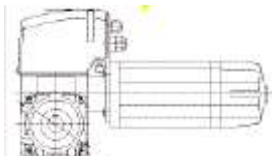
No Limit Switches
(bridged!)





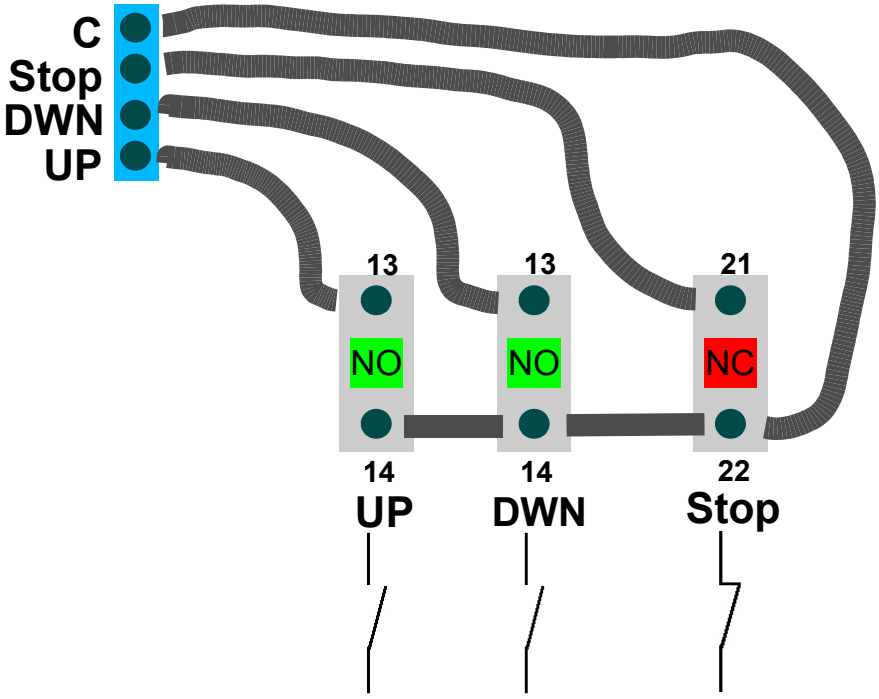
remove bridges when
installing build-in-starters

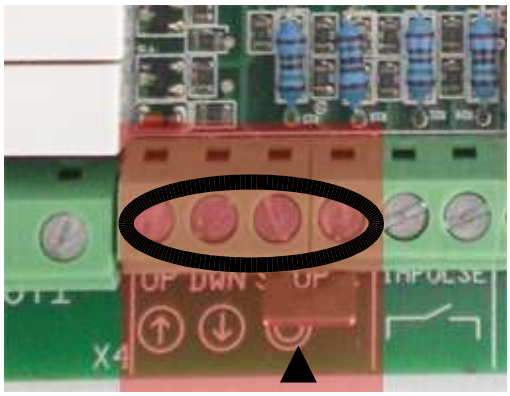




Connection accessories

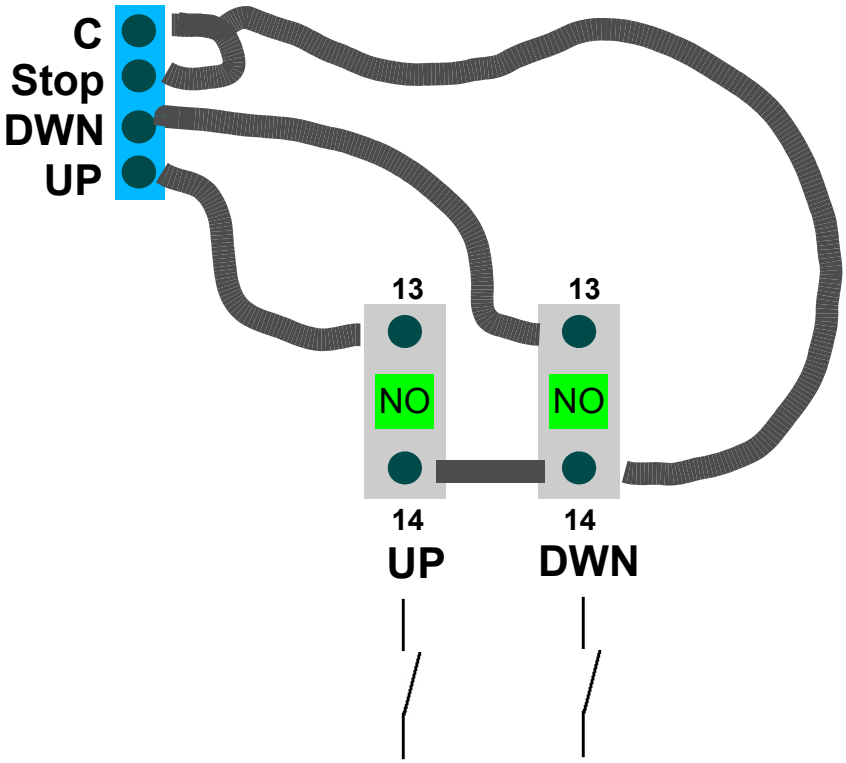
KDT 3 Pushbutton



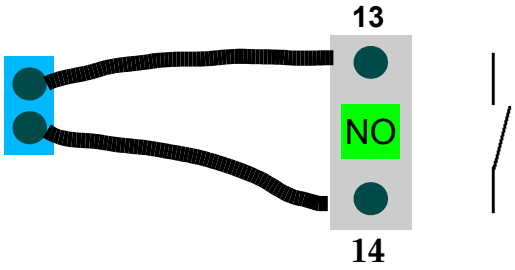


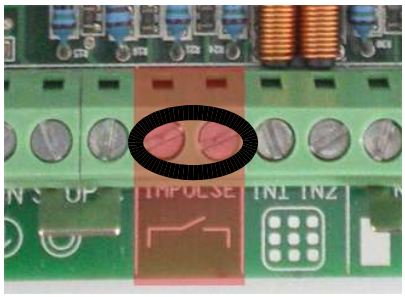
remove bridge when installing KDT 3 Pushbutton

KDT 2 Pushbutton / M-Series 2T

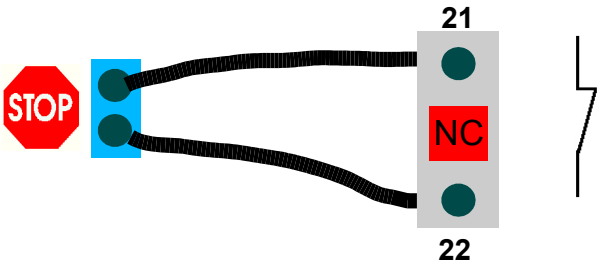


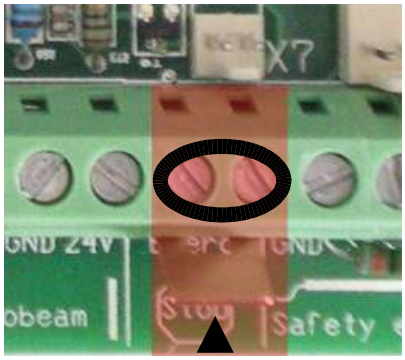
M-Series 1T





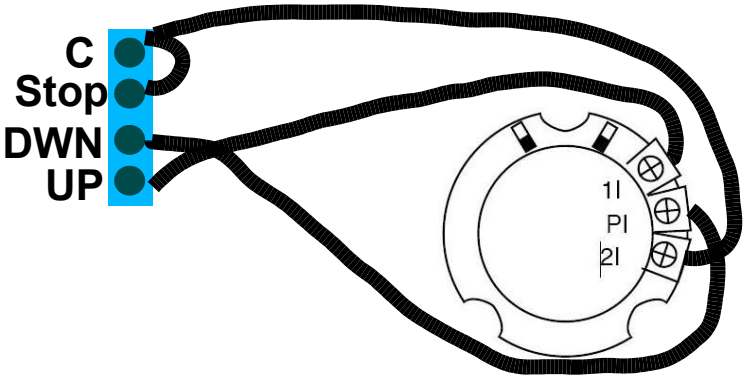
Emergency Stop / KDT 1

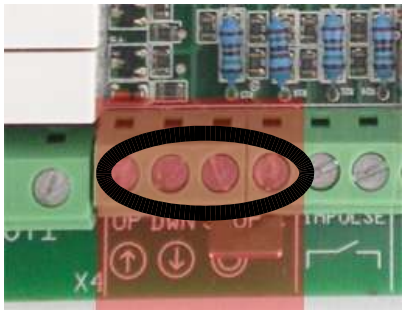


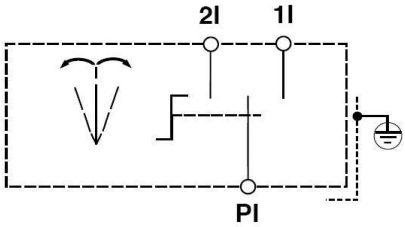


remove bridge

ES Series

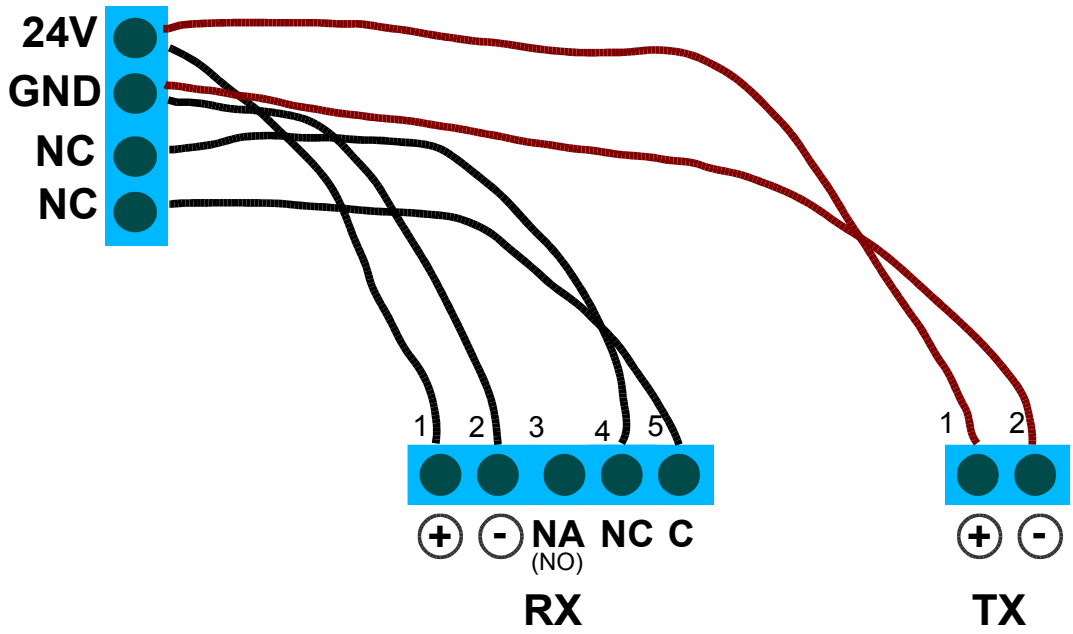


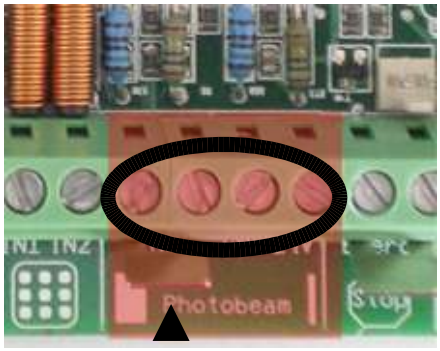




Photobeams

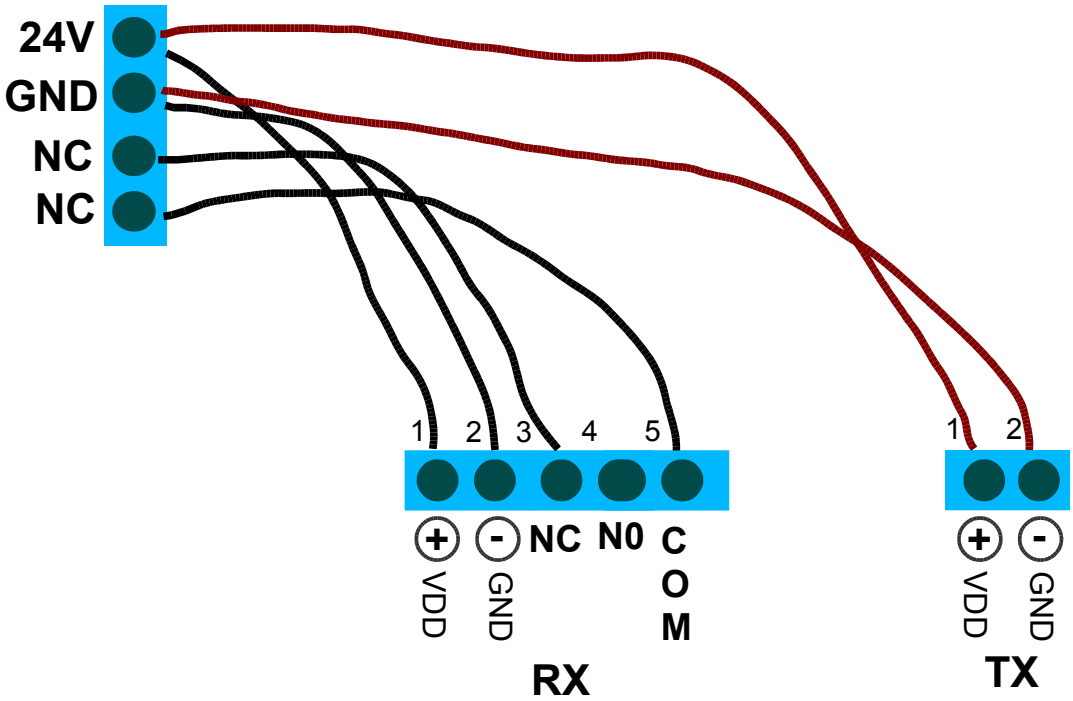
LS 1



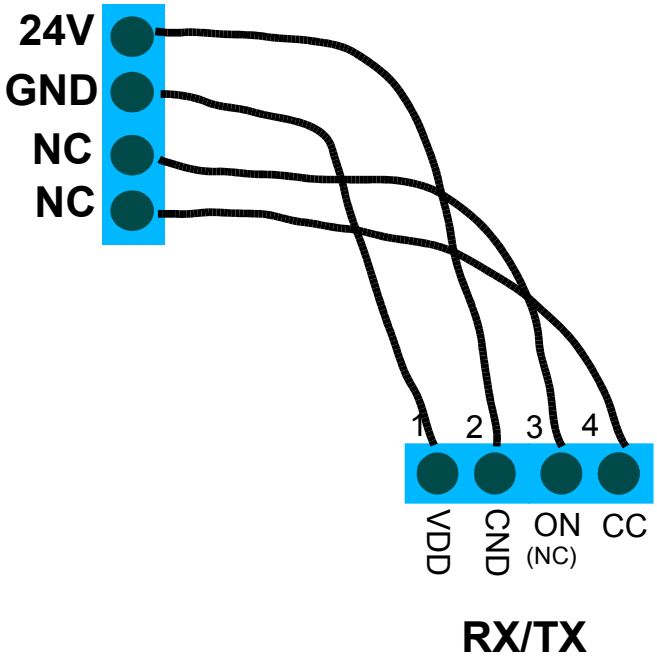


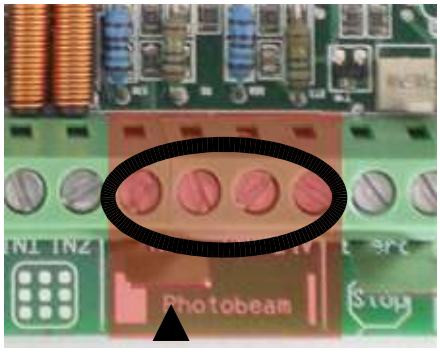
remove bridge

LS 2



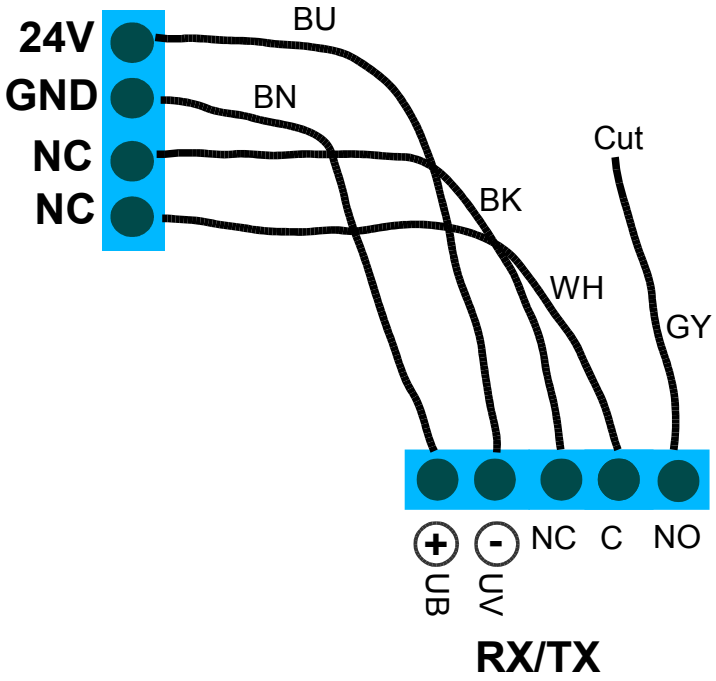
LS 2 Reflector



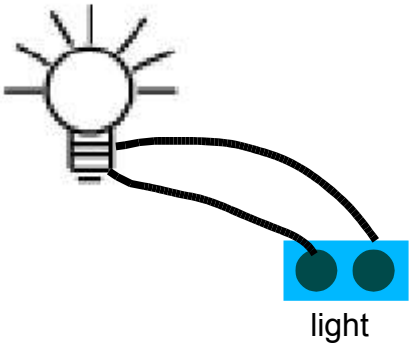


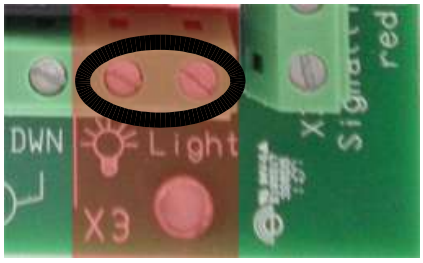
remove bridge

LS 3 Reflector



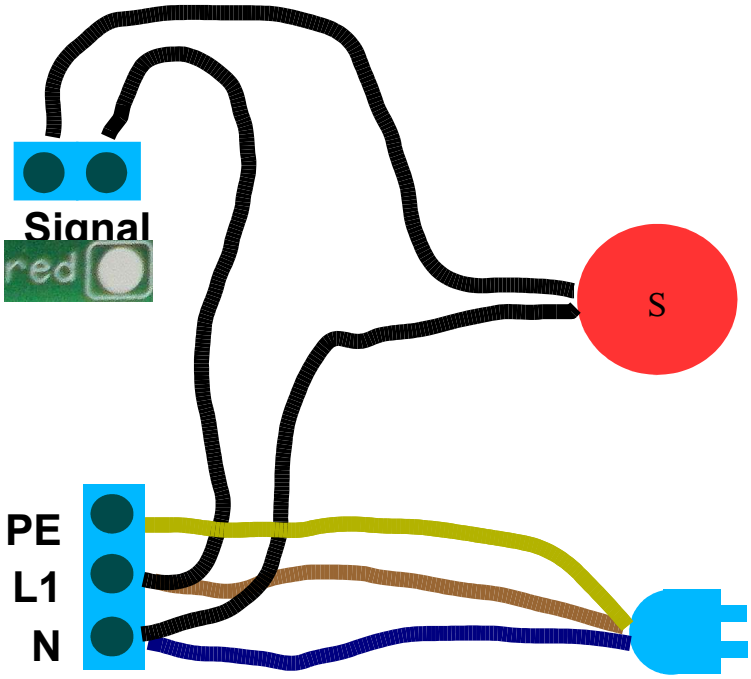
Court light (230 VAC) / Signal light

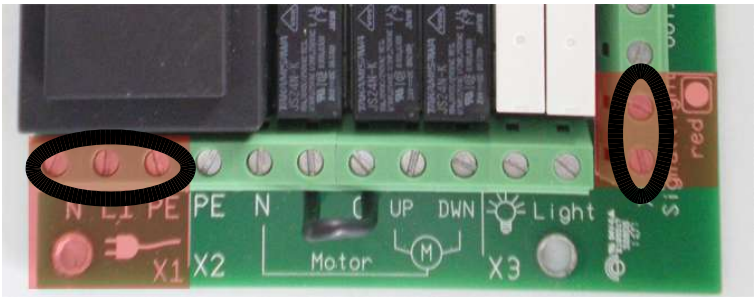




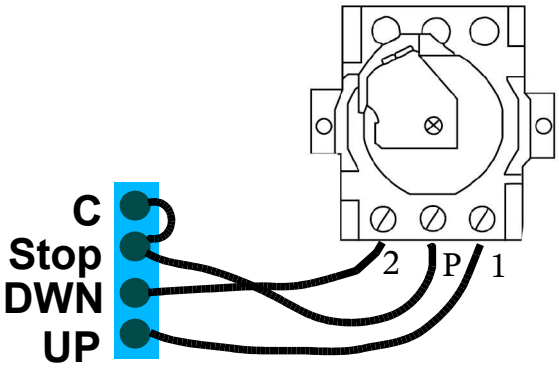
DC 2 – EURO deluxe

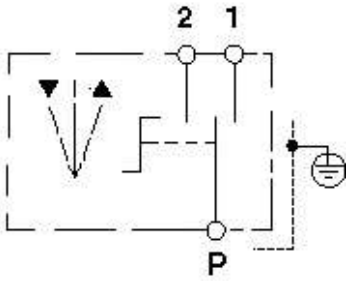
Signal light (230 VAC)

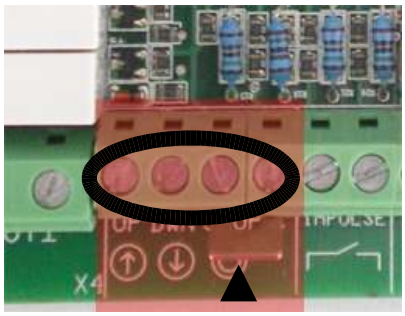




J-Series

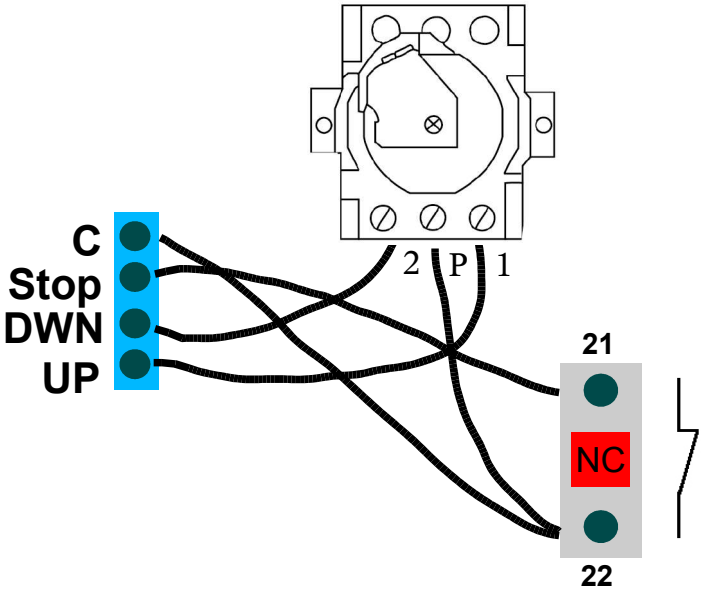




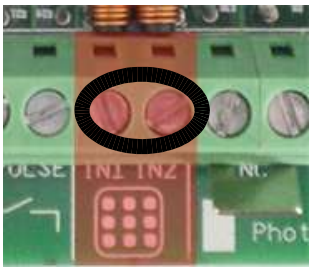


remove bridge when installing J-Series with Stop

J with Stop

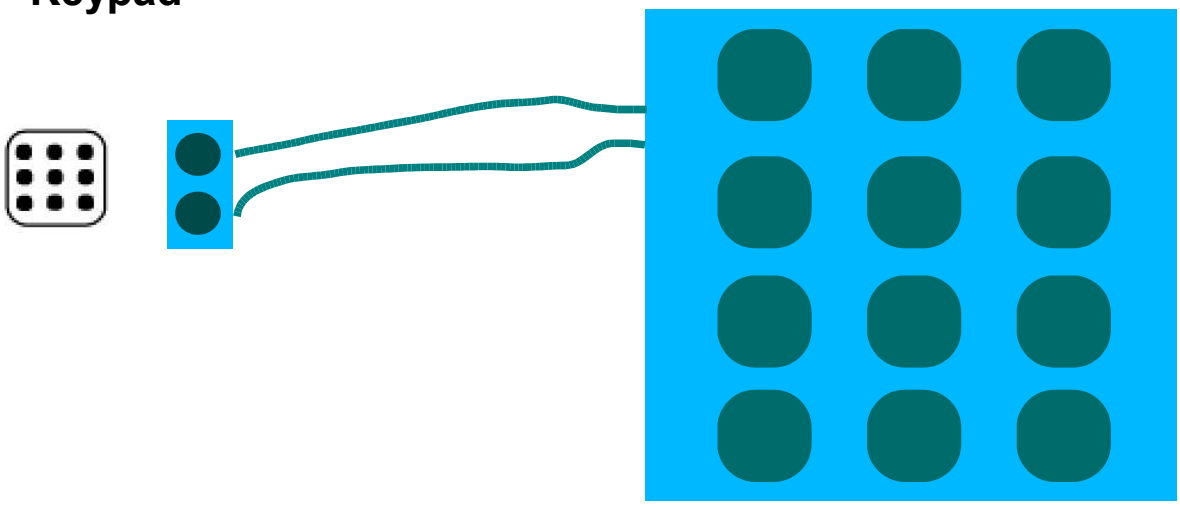


Optional accessories for DC2 deluxe

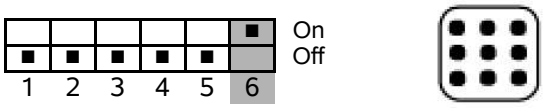


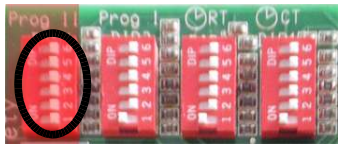
Cody

1. Wiring
Keypad



2. DIP-switch / Program 2
Programming mode on

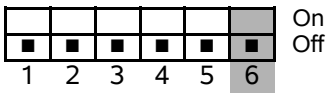


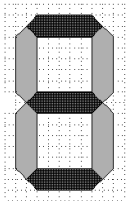


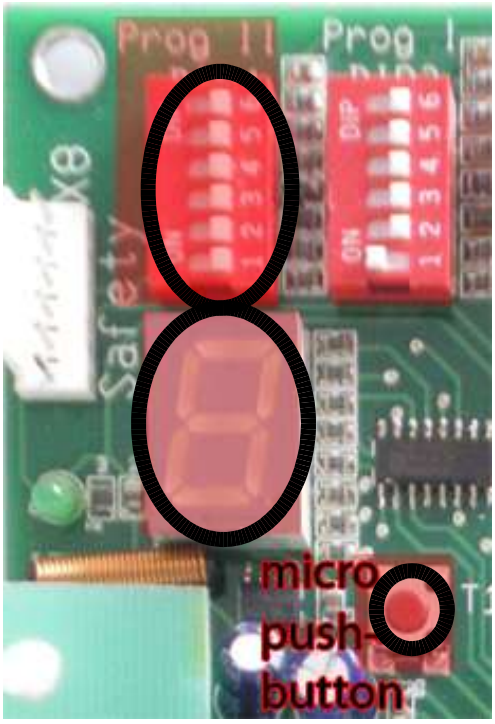
3. Insert Codes (10 different Codes with 4 or 5 digits) programming

Insert Code (e.g.)	Confirm	Status Display	Beep
1234			
78541			
5398			
...			

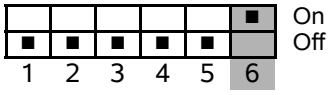
4. Programming mode off

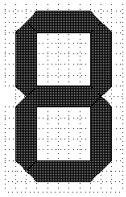






5. Cancel Codes



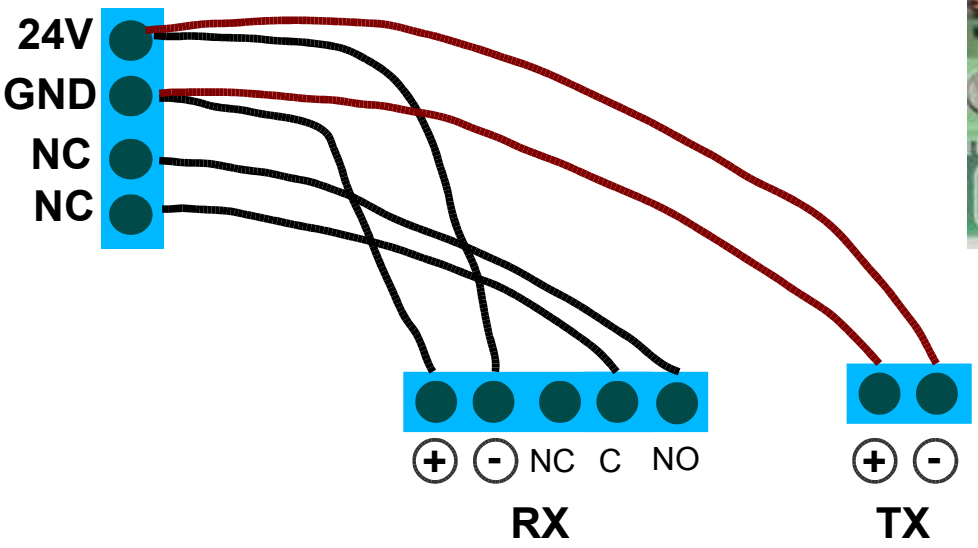


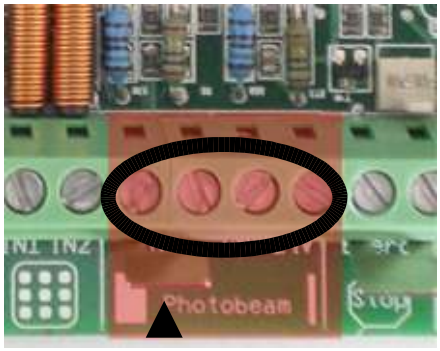
press micro push-button to choose

press micro push-button two seconds

code canceled / postion free

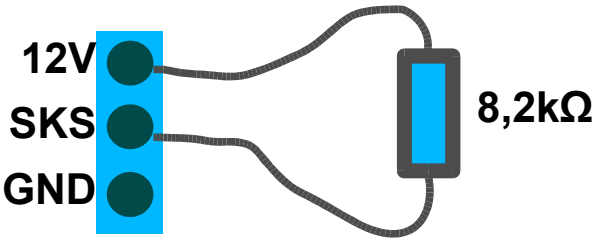
LS 4

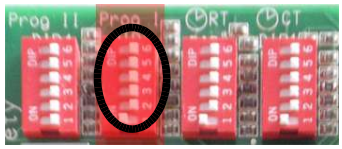


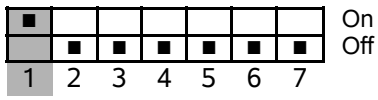


remove bridge

8k2

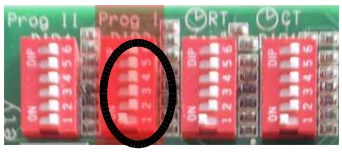


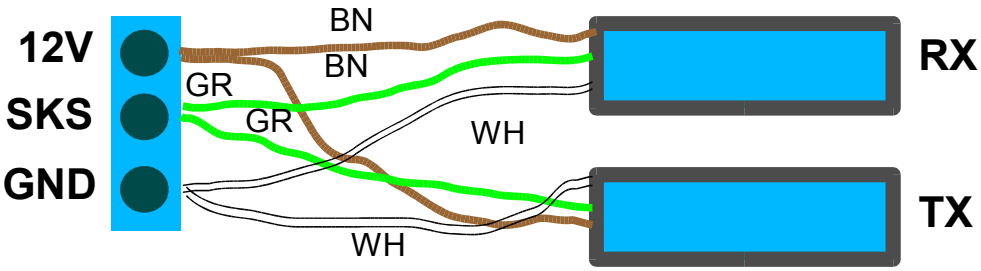


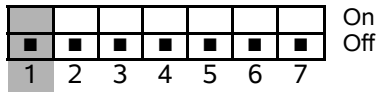


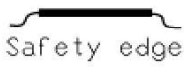
8,2kΩ

Safety-edge Pro-Sec-O



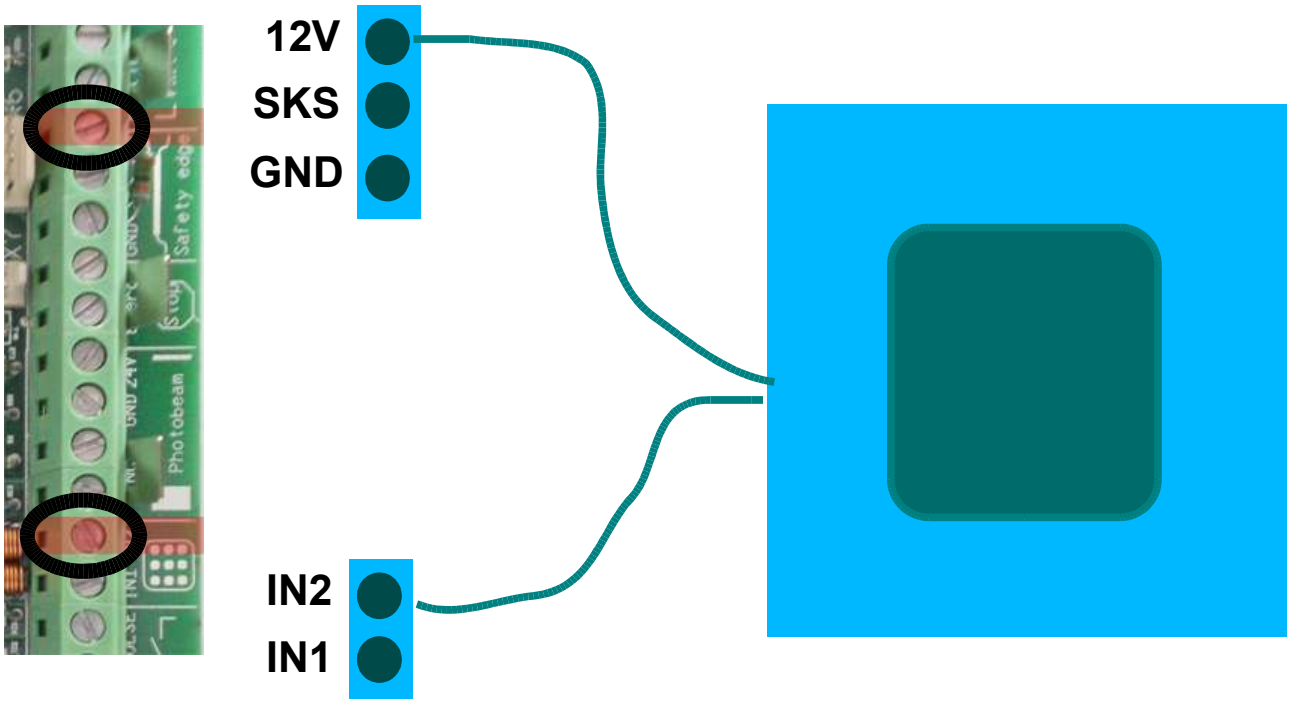




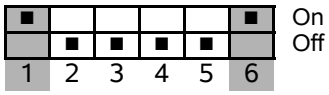


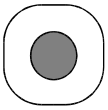
Transponder

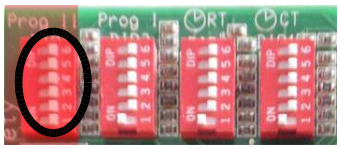
1. Wiring



2. DIP-switch / Program 2
Programming mode on



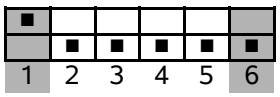




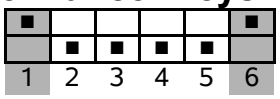
3. Programming max. 10 different Keys

	Key Nr.	*position*
	1	
	2	
	3	
Maximum 10 Keys		

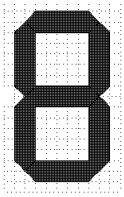
4. Programming mode off

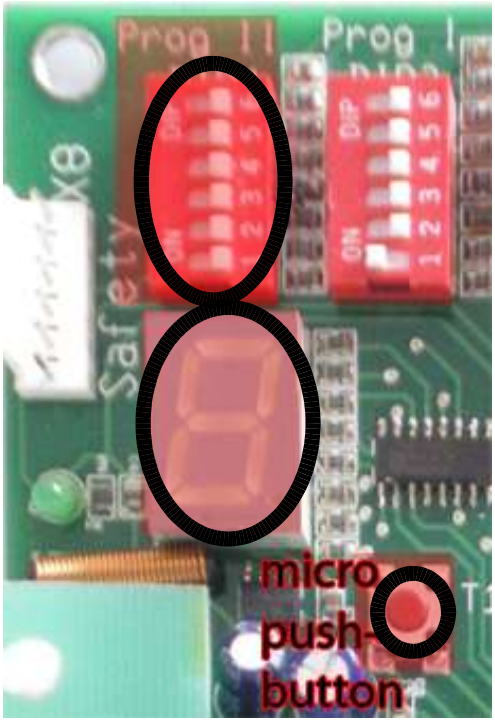


5. Cancel Keys



press micro push-button to choose

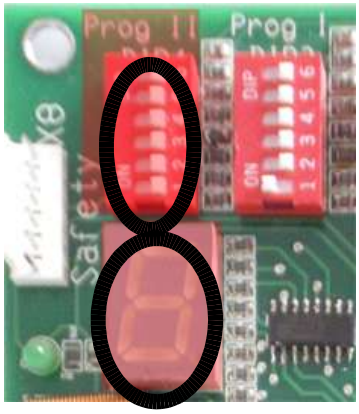




press micro push-button two seconds

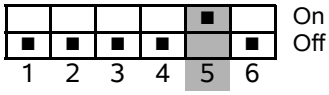
key canceled / postion free

Radio control (maximum 20 Transmitters)



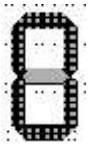
1. Plug in the RC Module

2. DIP-switch / Program 2 programming mode on

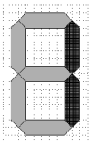


3. Programming

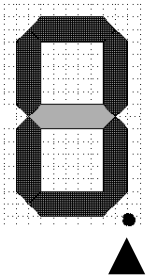
press one button for two seconds



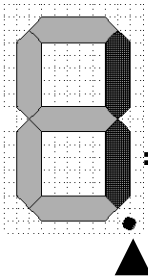
(or another transmitter)



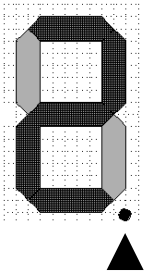
and so on. Maximum 20 Transmitters.



= 10

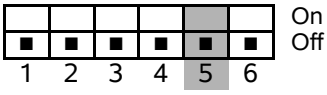


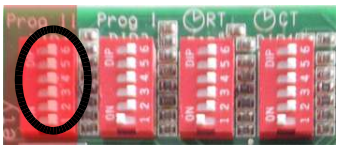
= 11



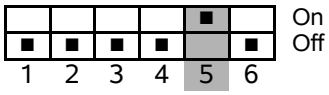
= 12 and so on.

4. Programming mode off

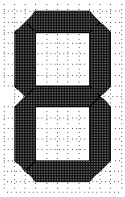




5. Cancel Transmitters

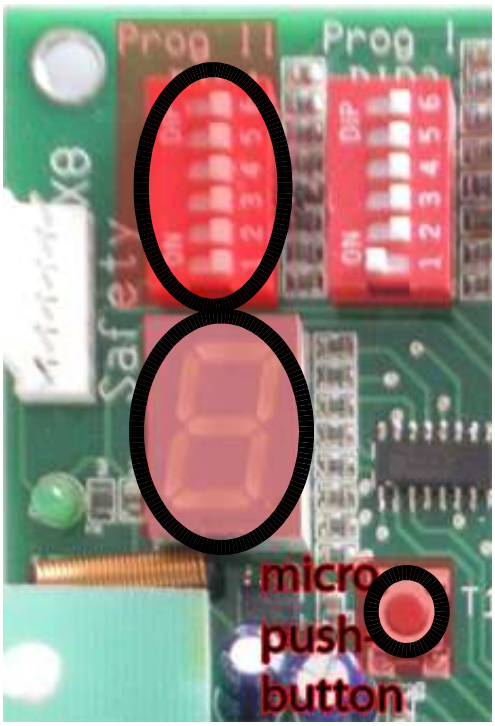


press micro push-button to choose

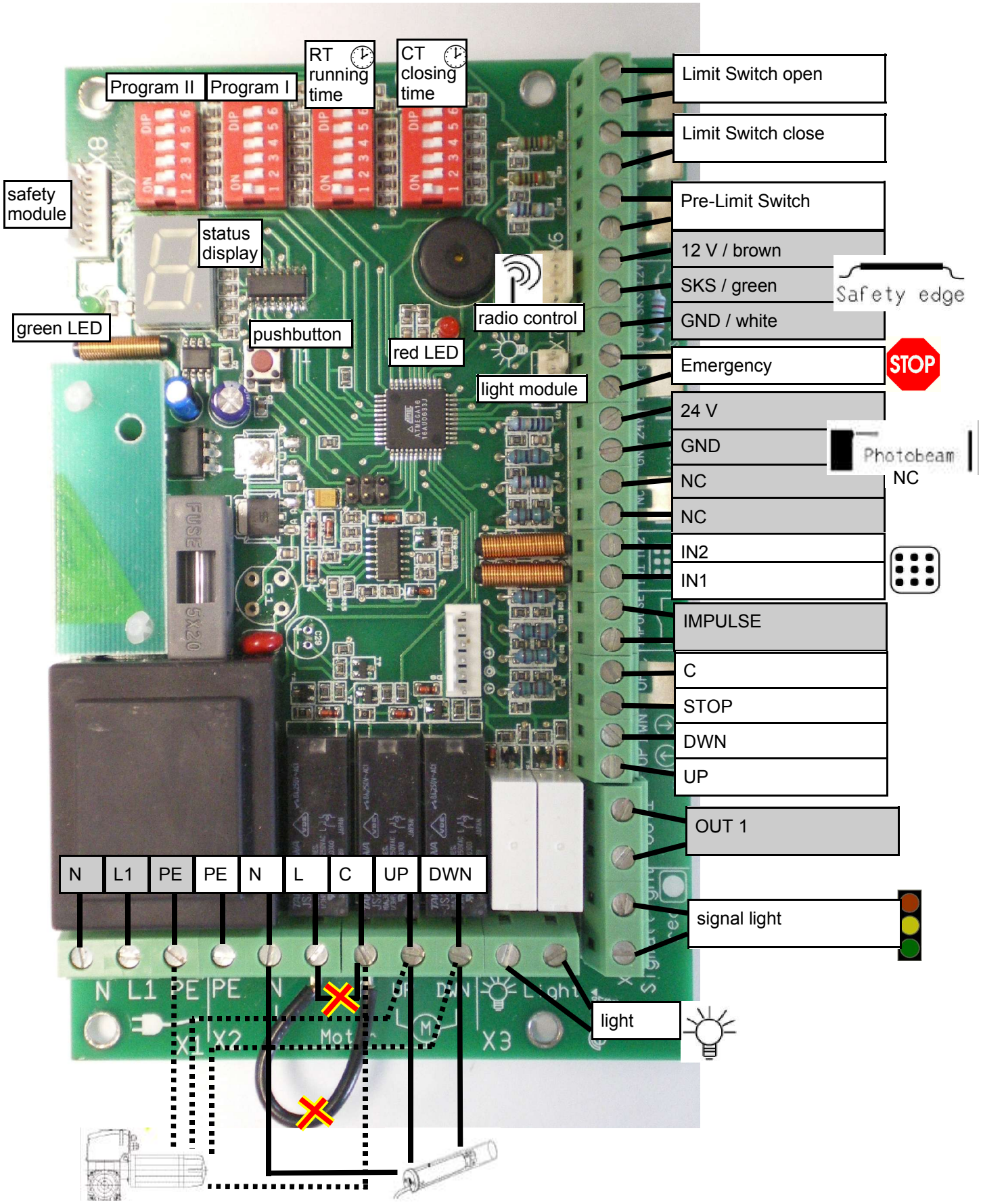


press mirco push-button two seconds

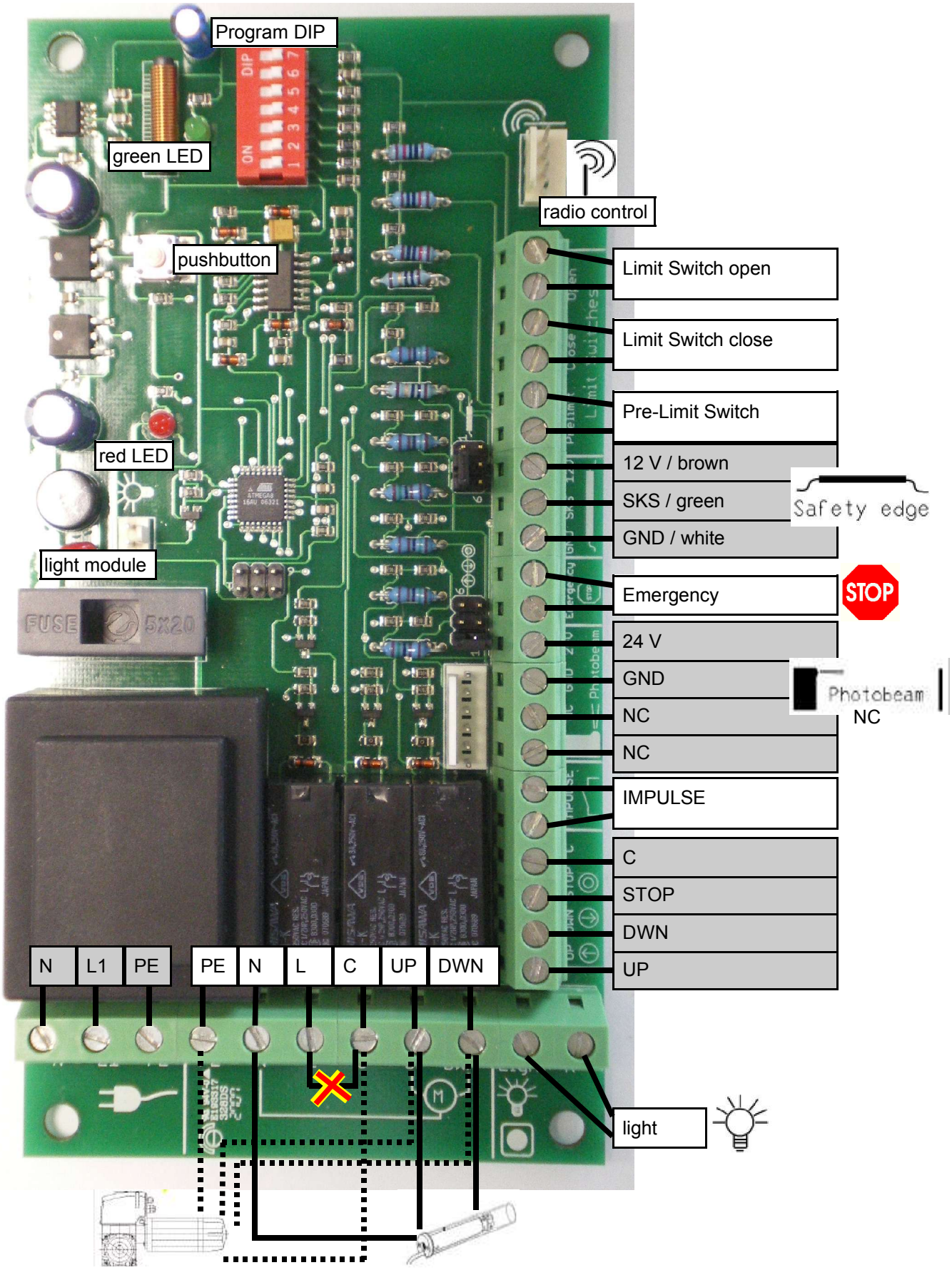
transmitter canceled / postion free



The door control DC 2 EURO is designed for hold to run control of power operated doors. The basic version is designed for hold to run operation only, and you are not allowed to use the automatic function without using additional safety devices.



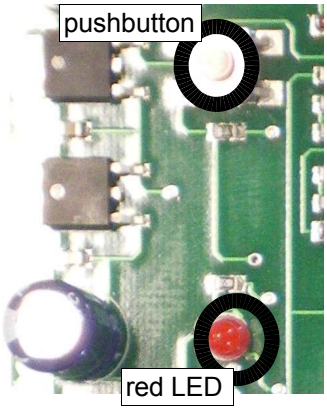
remove bridge marked with ✕
when installing build-in-starters



remove bridge marked with ✕
when installing build-in-starters

Radio control (maximum 20 Transmitters)

1. Plug in the RC Module



2. Programming mode on
   Press button >5 seconds
   red LED flashes fast

3. Programming

Press one button for two seconds

red LED flashes long once = stored

(or another type of transmitter)

and so on. Maximum 20 Transmitters.

4. Programming mode off
   10 seconds after the last programming the programm returns to standart mode.

5. Cancel all Transmitters
   Press button >5 seconds
   red LED flashes fast
   press button once more for >5 seconds
   red LED off = all transmitters cancelled